

**AMENDMENTS TO THE CLAIMS**

The listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of Claims**

1. (Currently Amended) An angular velocity sensor comprising:  
  
a vibrator for detecting angular velocity, the vibrator comprising: a drive electrode unit for receiving a driving signal to drive the vibrator;  
  
a monitor electrode unit for detecting a state of driving the vibrator and outputting a detection signal; and  
  
a sensing electrode unit for outputting an angular velocity signal generated based on an angular velocity given to the vibrator, wherein  
  
the drive electrode unit, the monitor electrode unit and the sensing electrode unit are each made up of a bottom electrode formed on a substrate, a piezoelectric film made of piezoelectric material and formed on the bottom electrode, and a top electrode formed on the piezoelectric film, wherein  
  
when the piezoelectric film has a thickness of "t", the piezoelectric film is made to have an exposed width "L" of not less than 0.3t, the exposed width "L" extending from the end of the piezoelectric film to the end of the top electrode, and  
  
an end of the top electrode is located inside an end of the piezoelectric film so as to expose the end of the piezoelectric film beyond the end of the top electrode.

2. (Cancelled)

3. (Original) The angular velocity sensor of claim 1, wherein the vibrator has a shaft and a pair of arms so as to take a shape of a tuning fork, and each of the pair of arms is provided with the drive electrode unit and the sensing electrode unit, and is further provided with the monitor electrode unit on a part thereof that is adjacent to the shaft.

4. (Original) The angular velocity sensor of claim 1, wherein the top electrode, the piezoelectric film and the bottom electrode are formed into prescribed shapes by dry etching.

5. (Original) The angular velocity sensor of claim 1, wherein the substrate is mainly made of silicon, and the piezoelectric material is PZT.

6. (Currently Amended) A method for manufacturing an angular velocity sensor comprising a vibrator for detecting angular velocity, the vibrator comprising a drive electrode unit for receiving a driving signal to drive the vibrator; a monitor electrode unit for detecting a state of driving the vibrator and outputting a detection signal; and a sensing electrode unit for outputting an angular velocity signal generated based on an angular velocity given to the vibrator, the method comprising a process of forming the drive electrode unit, the monitor electrode unit and the sensing electrode unit, the process comprising:

forming a bottom electrode on a substrate;

forming a piezoelectric film made of piezoelectric material on the bottom electrode; and

forming a top electrode on the piezoelectric film, wherein

when the piezoelectric film has a thickness of "t", the piezoelectric film is made to have an exposed width "L" of not less than 0.3t, the exposed width "L" extending from the end of the piezoelectric film to the end of the top electrode, wherein

the top electrode, the piezoelectric film and the bottom electrode are formed into prescribed shapes by dry etching in such a manner that an end of the top electrode is located inside an end of the piezoelectric film so as to expose the end of the piezoelectric film beyond the end of the top electrode.